From: Thuy Nguyen
To: Thomas Steeger
Subject: Re: Screening results for apiculture bee samples - REVISED data
Date: 12/04/2012 11:54 AM

Tom
Our LC-MS/MS is still down. However, we did analyze some of the neonicotinoids, using the GC-MS/MS. Although we were not able to get the same sensitivity we would from the LC-MS/MS, based on our GC-MS/MS analysis, acetamiprid, imidachloprid, and thiametoxam are not present in the samples above 30 ppb levels. We need the LC-MS/MS for clothianidin , dinitofuran, and thiacloprid
Thuy

▼ Thomas Steeger---11/30/2012 06:37:01 PM---OK-- thank you. ----------

From: Thomas Steeger/DC/USEPA/US
To: Thuy Nguyen/DC/USEPA/US@EPA
Date: 11/30/2012 06:37 PM
Subject: Re: Screening results for apiculture bee samples - REVISED data

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OK-- thank you.

Sent by EPA Wireless E-Mail Services.

▼ Thuy Nguyen---11/30/2012 03:57 PM EST---Tom, Most of the Neonicotinoids can only be analyzed by LC instrument. Since our LC is down for repa

From: Thuy Nguyen
To: Thomas Steeger
Cc:
Date: 11/30/2012 03:57 PM EST
Subject: Re: Screening results for apiculture bee samples - REVISED data

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Tom,
Most of the Neonicotinoids can only be analyzed by LC instrument. Since our LC is down for repair, we are unable to give you the LC data now. We should have some data for you next week.
Thuy

▼ Thomas Steeger---11/30/2012 03:54:47 PM---Are only a limited number of neonicotinoids included in the analysis? ----------

From: Thomas Steeger/DC/USEPA/US
To: Thuy Nguyen/DC/USEPA/US@EPA
Date: 11/30/2012 03:54 PM
Subject: Re: Screening results for apiculture bee samples - REVISED data

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Are only a limited number of neonicotinoids included in the analysis?

Sent by EPA Wireless E-Mail Services.

▼ Thuy Nguyen---11/30/2012 03:14 PM EST---Tom A minor (but important) correction in the table of results - L-Cyhalothrin was detected in the U

From:	Thuy Nguyen
To:	Thomas Steeger
Cc:	
Date:	11/30/2012 03:14 PM EST
Subject:	Re: Screening results for apiculture bee samples - REVISED data

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Tom
A minor (but important) correction in the table of results - L-Cyhalothrin was detected in the UT bee carcass (~21 ppb), but not in the UT bee hive sample.
Attached is the revised report

[attachment "Bee 112812 screening results.xlsx" deleted by Thomas Steeger/DC/USEPA/US]

▼ Thuy Nguyen---11/30/2012 02:54:53 PM---Tom, As promised, attached are the screening results for the 8 bee samples - 2 samples from Utah and

From: Thuy Nguyen/DC/USEPA/US
To: Thomas Steeger/DC/USEPA/US@EPA
Date: 11/30/2012 02:54 PM
Subject: Screening results for apiculture bee samples

Tom,
As promised, attached are the screening results for the 8 bee samples - 2 samples

from Utah and 6 from Arizona.

The lab extracted and analyzed all eight samples in one batch. One procedural blank, one control bee, and one fortified control bee were also processed with the sample batch. Calibration standards in bee matrix were prepared and used for the quantitation. Samples were screened by both GC-MS/MS and LC-MS/MS for all the analytes listed in the attached spreadsheet.

Please note that the results have only gone through analyst review, and no additional QC check. The values are presented as rough estimates and for screening purpose only. We noted some matrix interference for Thymol, which was only detected in the UT samples, but at high level (ppm). The recovery of Thymol from control bee sample was 76%.

L-Cyhalothrin was not detected in any of the samples (UT and AZ)

Based on the GC-MS/MS analysis, we did not detect Carbaryl and naphthol-1 in any of the samples, but could not confirm that on our LC-MS/MS, which is currently under repair. Clothianidin is another compound that requires analysis by LC-MS/MS. As soon as the instrument is fixed, we will analyze for these 3 compounds and let you know of the results.

All screening values reported in attached table are in ppb or ng/g of sample. Except for Carbaryl and Naphthol-1, all analytes without a value associated to them can be viewed as "not detected" in corresponding sample. Since this is a screening analysis, we cannot provide you with an LOD for each analyte, but in general, the LODs for the analytes range from 0.1ppb to 50 ppb

Recoveries of the detected compounds from the fortified control bee sample on GC-MS/MS was between 70% and 100%. The control sample was fortified with all analytes at 30 ppb, each.

Please let me know if you have questions
Thuy
[attachment "Bee 112812 screening results.xlsx" deleted by Thuy Nguyen/DC/USEPA/US]